

## SUPPLEMENTAL INFORMATION

### Dipyridophenazine Complexes of Os(II) as Red-Emitting DNA Probes: Synthesis, Characterization, and Photophysical Properties

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**Figure S1.**  $^1\text{H}$  NMR of  $[\text{Os}(\text{phen})(\text{Me}_2\text{-dppz})\text{Cl}_2]$  in  $\text{CD}_2\text{Cl}_2$  at 300 MHz. Also shown is a schematic representation of each polypyridyl ligand attached to the metal center with appropriate notations for spectral assignment. Integration indicates 16 resonances with area corresponding to one  $^1\text{H}$ , consistent with a *cis*-dichloro complex.

**Figure S2.**  $^1\text{H}$  NMR of  $[\text{Os}(\text{phen})(\text{bpy}')(\text{Me}_2\text{-dppz})]^{2+}$  in  $\text{CD}_3\text{OD}$  at 300 MHz. The spectrum is complicated owing to the inequivalence of all the aromatic protons, however, characteristic signals for the 4 and 7-protons of the  $\text{Me}_2\text{-dppz}$  ligand are well resolved at  $\sim 10.5$  ppm.

**Figure S3.** CD spectra for the pure  $\Delta$  ( $\blacktriangle$ ) and  $\Lambda$  ( $\bullet$ ) enantiomers of  $[\text{Os}(\text{phen})_2(\text{Me-dppz})]^{2+}$  in water. The complete baseline resolution of the two bands from which these samples were isolated and the mirror image relationship between the CD spectra indicate that these samples are the pure enantiomers. For  $\Delta$ - $[\text{Os}(\text{phen})_2(\text{dppz})]^{2+}$ ,  $\Delta\epsilon$  (270 nm) =  $-209 \text{ M}^{-1}\text{cm}^{-1}$ , and for  $\Lambda$ - $[\text{Os}(\text{phen})_2(\text{dppz})]^{2+}$   $\Delta\epsilon$  (270 nm) =  $+214 \text{ M}^{-1}\text{cm}^{-1}$ .

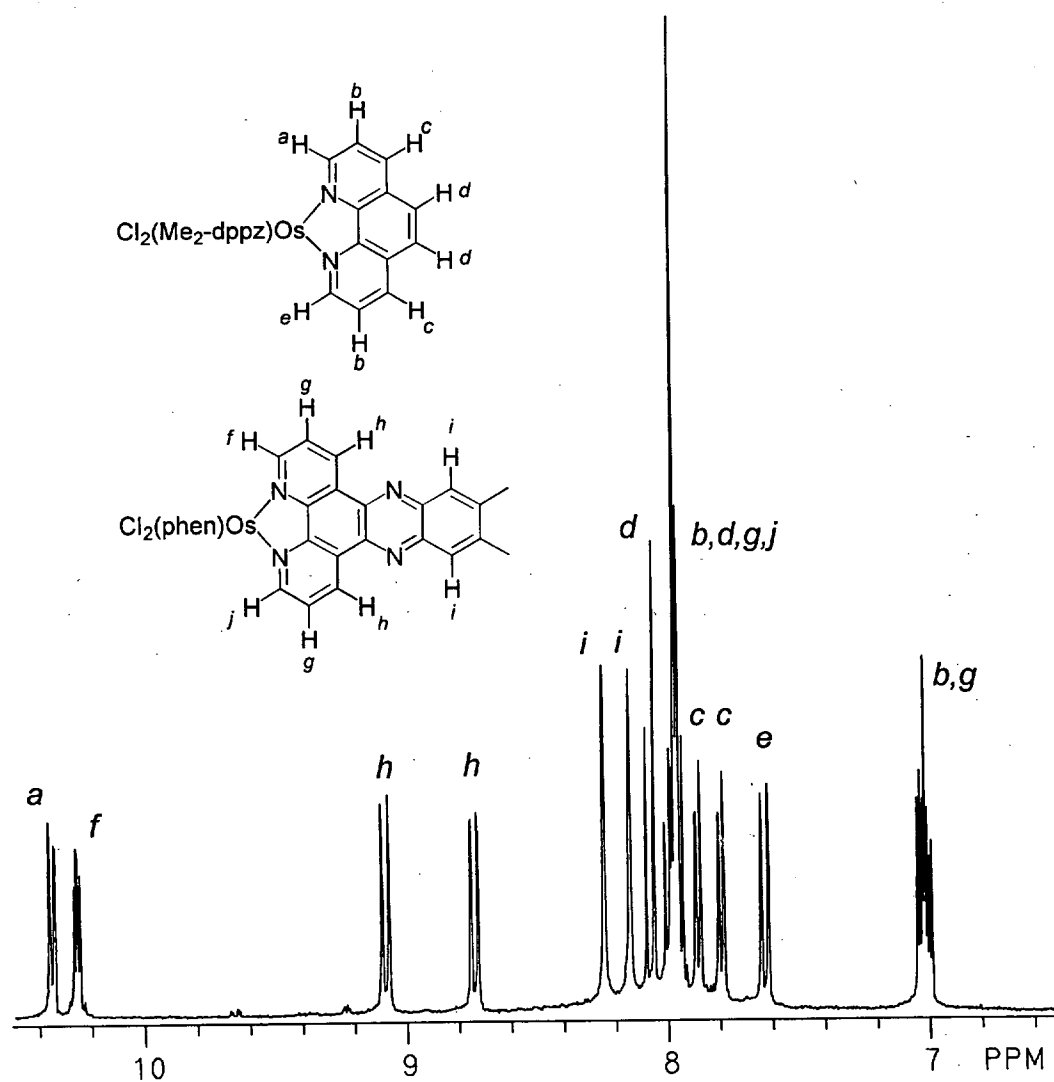


Figure S1

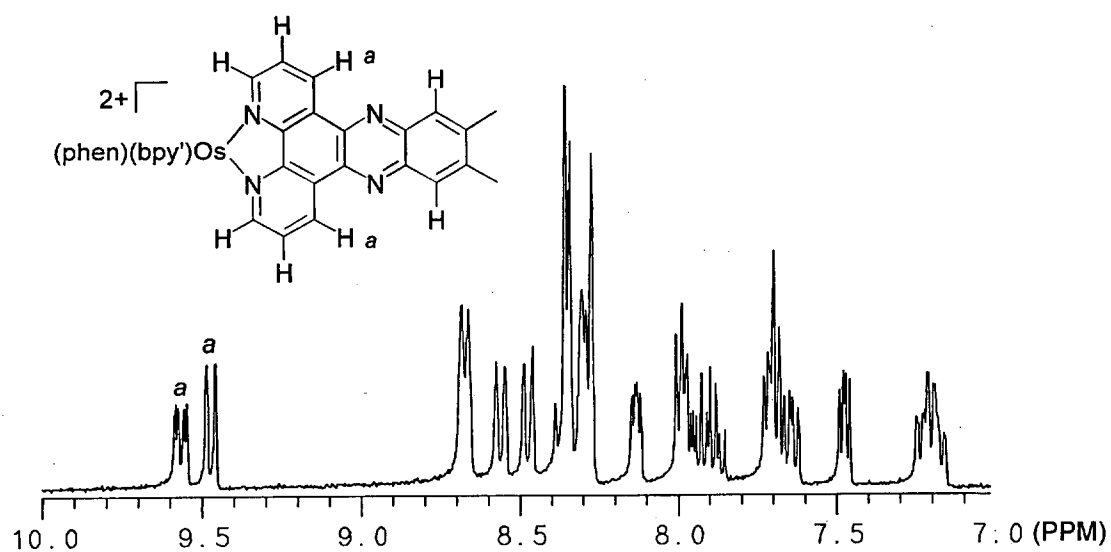


Figure S2

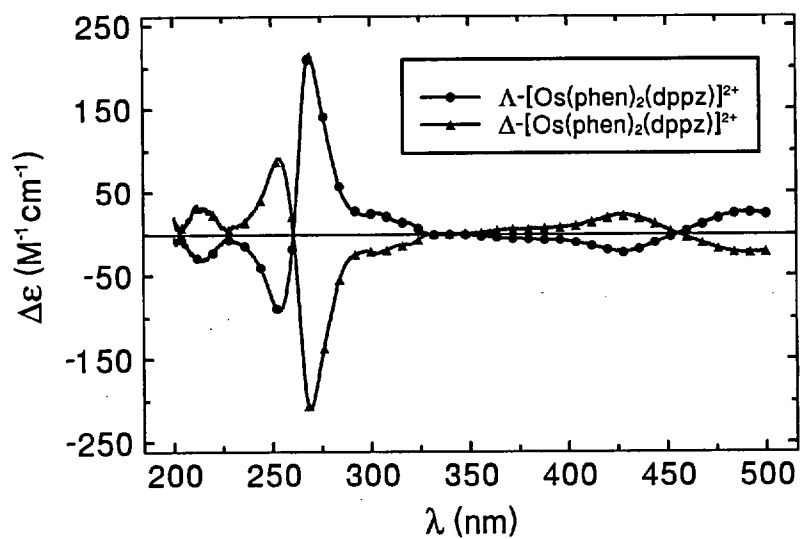


Figure S3